

5' CTG TTC CAG TGC GCG GGT 18 27 36 45 54
 CTG TGG AGA GCC GGG TGC GAG CGG CAG CAC GAG
 63 72 81 90 99 108
 GGG AAA AGA GCT GAG CGG AGA CCA AAG TCA GCC GGG AGA CAG TGG GTC TGT GAG
 117 126 135 144 153 162
 AGA CCG AAT AGA GGG GCT GGG GCC ACG AGC GCC ATT GAC AAG CAA TGG GGA AGA
 171 180 189 198 207 216
 AAC AGA AAA ACA AGA GCG AAG ACA GCA CCA AGG ATG ACA TTG ATC TTG ATG CCT
 225 234 243 252 261 270
 TGG CTG CAG AAA TAG AAG GAG CTG GTG CTG CCA AAG AAC AGG AGC CTC AAA AGT
 279 288 297 306 315 324
 CAA AAG GGA AAA AGA AAA AAG AGA AAA AAA AGC AGG ACT TTG ATG AAG ATG ATA
 333 342 351 360 369 378
 TCC TGA AAG AAC TGG AAG AAT TGT CTT TGG AAG CTC AAG GCA TCA AAG CTG ACA

FIGURE 1A

387 396 405 414 423 432
GAG AAA CTG TTG CAG TGA AGC CAA CAG AAA ACA ATG AAG AGG AAT TCA CCT CAA
M K R N S P Q

441 450 459 468 477 486
AAG ATA AAA AGA AAG GAC AGA AGG GCA AAA CAG AGT TTT GAT GAT AAT
K I K K R K D R R A K K Q S F D D N

495 504 513 522 531 540
GAT AGC GAA GAA TTG GAA GAT AAA GAT TCA AAA AAG ACT GCA AAA CCG
D S E L E D K D S K S K K T A K P

549 558 567 576 585 594
AAA GTG GAA ATG TAC TCT GGG AGT GAT GAT GAT TTT AAC AAA CTT CCT
K V E M Y S G S D D D F N K L P

603 612 621 630 639 648
AAA AAA GCT AAA GGG AAA GCT CAA AAA TCA AAT AAG AAG TGG GAT GGG TCA GAG
K K A K G K A Q K S N K K W D G S E

657 666 675 684 693 702
GAG GAT GAG GAT AAC AGT AAA AAA ATT AAA GAG CGT TCA AGA ATA AAT TCT TCT
E D E D N S K K I K E R S R I N S S

711 720 729 738 747 756
GGT GAA AGT GGT GAT GAA TCA GAT GAA TTT TTG CAA TCT AGA AAA GGA CAG AAA
G E S G D E S D E F L Q S R K G Q K

FIGURE 1B

765	AAA AAT CAG	774	AAA AAC AAG	783	CCA GGT CCT	792	AAC ATA GAA	801	AGT GGG AAT	810	GAT GAT GAT
	K N Q		K N K		P G P		N I E		S G N		D D D
819	GAC GCC TCC	828	TTC AAA ATT	837	AAG ACA GTG	846	GCC CAA AAG	855	AAG GCA GAA	864	AAG AAG GAG
	D A S		F K I		T V A		Q K Q		A E K		E K E
873	CGC GAG AGA	882	AAA AAG CGA	891	GAT GAA GAA	900	AAA GCG AAA	909	CTG CGG AAG	918	CTG AAA GAA
	R E R		K K R		D E E		K A K		L R K		E K E
927	AAA GAA GAG	936	TTA GAA ACA	945	AAA AAG GAT	954	CAG AGT AAA	963	CAA CAA AAG	972	GAA TCT CAA
	K E E		L E T		G K K		Q D Q		K S Q		Q S Q
981	AGG AAA TTT	990	GAA GAA GAA	999	ACT GTA AAA	1008	TCC AAA GTG	1017	ACT GTT GAT	1026	ACT GGA GTA
	R K F		E E E		T V K		S K V		T V D		G V V
1035	ATT CCT GCC	1044	TCT GAA GAG	1053	GCA GAG ACT	1062	CCC ACA GCT	1071	GCA GAA GAT	1080	GAT GAC AAT
	I P A		S E E		A E A		T P T		A E D		D N N
1089	GAA GGA GAC	1098	AAA AAG AAG	1107	AAA GAT AAG	1116	AAA AAG AAA	1125	GGA GAA AAG	1134	AAG GAA GAA
	E G D		K K K		D K K		K K K		G E K		E K E

FIGURE 1C

1143	1152	1161	1170	1179	1188
AAA GAG AAA GAG AAG AAA AAA GGA CCT AGC AAA GCC ACT GTT AAA GCT ATG CAA					
K E K E K K K K G P S K A T V K A M Q					
1197	1206	1215	1224	1233	1242
GAA GCT CTG GCT AAG CTT AAA GAG GAA GAA GAA AGA CAG AAG AGA GAA GAG GAA					
E A L A K K L K E E E E R Q K R E E E					
1251	1260	1269	1278	1287	1296
GAA CGT ATA AAA CGG CTT GAA GAA TTA GAA AGC AAG CCG TAA GCA CAA GGA ACC					
E R I K R L E E L E S K P					
1305	1314	1323	1332	1341	1350
GTT TGG AAC CCA GAC CAA AAG AGC AAG GGC ACA GGC AAG ACA CCA AAC CAA GGG					
1359	1368	1377	1386	1395	1404
GCG GCC CCC GAA TTA ATG TAC CTC TTC GCA CCG GGA CTT CCT TTC GGG GCC GTT					
1413	1422	1431			
CCT GCA AGC GGA ACC AAT TTT CCC TAA AGG 3'					

FIGURE 1D

1 MKRNSPQKIKKRRKDRRAKKQSFDDNDSEEL EDKDSKSKT NABP-1
1 - - - - - GQKGKKTSTFDENDSEEL EDKDSKSKP g1514949

41 AKPKVE - MYSGSDDDDFNKKLPKKAKGKAQKSNKKWDGSE NABP-1
28 ARPNSEVLLSGSEDAADDPNKL SKKGK - KAAQKSTKKRDGSE g1514949

80 EEDNSKKIKERSRINSSGESGDESDEF LQSRKGGQKKNQK NABP-1
67 EEDNSKRSKERSRVNSSGESGGESEDEF LQSRKGGQKKNQK g1514949

120 NKP GPNIESGNEDDDA SFKIKTV AQKKA EKKERERKKRDE NABP-1
107 NKSVPITIDSGNEDDDS SFKIKTV AQKKA EKKERERKKRE g1514949

160 EKA KLRKLKEKEEEL ETGKKDQSKQKESQRRKFEETVKS KV NABP-1
147 EKA KLRKVKEKEEEL EKGRKEQSKQRE PQKRPDEEVLVLRG g1514949

200 TVDTGVIPASEEKAETPTAA EDDN EGDKKKDKKKKGEK NABP-1
187 TPDAG - - AASEEKGDI AATLEDDN EGDKKKDKKKKT EK g1514949

240 EEKEKEKKGP SKATVKAMQEALAKLKEEEERQKREER NABP-1
225 DDKEKEKKKG g1514949

280 IKRLEEL ES KP NABP-1
234 g1514949

FIGURE 2

FIGURE 3A

